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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/445,844	12/15/1999	SHUUN YANG	DN97-038	1439
75	90 09/17/2002			
GILBERT W RUDMAN ELF ATOCHEM NORTH AMERICA INC 2000 MARKET STREET PHILADELPHIA, PA 191033222			EXAMINER	
			MEDLEY, MARGARET B	
			ART UNIT	PAPER NUMBER
			1714	12
			DATE MAILED: 09/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. O9/445844 YANG Hall Examiner Group Art Unit MEDLEY 19/4
-The MAILING DATE of this communication appe	ars on the cover sheet beneath the correspondence address—
Period for Reply	and the second distribution an
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE MONTH(S) FROM THE MAILING DATE
 If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, such period shall, by def Failure to reply within the set or extended period for reply will, by 	FR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS a reply within the statutory minimum of thirty (30) days will be considered timely. ault, expire SIX (6) MONTHS from the maiting date of this communication. statute, cause the application to become ABANDONED (35 U.S.C. § 133). mailing date of this communication, even if timely, may reduce any earned patent
Status	(0 0 0 0
X Responsive to communication(s) filed on April	1 2002
☐ This action is FINAL.	,
accordance with the practice under Ex parte Quavle, 19	pt for formal matters, prosecution as to th e merits is closed in 335 C.D. 1 1; 453 O.G. 213.
Disposition of Claims Claim(s) 1, 3, 7 and 9-20 ac	is/are pending in the application. is/are withdrawn from consideration. is/are allowed
Of the above claim(s)	is/are withdrawn from consideration.
□ Claim(s)	is/are allowed.
Claim(s) 1, 3, 7 and 9-20	is/are rejected.
□ Claim(s)	is/are objected to.
□ Claim(s)	are subject to restriction or election
Application Papers	requirement
☐ The proposed drawing correction, filed on	· ·
☐ The drawing(s) filed on is/are obj	ected to by the Examiner
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119 (a)–(d)	
☐ Acknowledgement is made of a claim for foreign priority	under 35 U.S.C. § 119 (a)-(d).
□ All □ Some* □ None of the:	
☐ Certified copies of the priority documents have been	
☐ Certified copies of the priority documents have been	
 Copies of the certified copies of the priority document in this national stage application from the Internation 	
*Certified copies not received:	• • •
Attachment(s)	•
☐ Information Disclosure Statement(s), PTO-1449, Paper N	lo(s) Interview Summary, PTO-413
□ Notice of Reference(s) Cited, PTO-892	
	□ Notice of Informal Patent Application, PTO-152
□ Notice of Draftsperson's Patent Drawing Review, PTO-9	48

Office Action Summary

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No. -

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 01, 2002 has been entered.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. A specific ratio of inert filler is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The disclosure at page 10, lines 4-26 and Tables I and II demonstrate that fillers are required to enhance the visual differentiation between the cross linked polymer component and the t thermoplastic matrix component to provide the "mineral like" or "granite-like appearance of the finished composite plastic composition.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

Application/Control Number: 09/445,844

Art Unit: 1714

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3, 7 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Minghetti et al 5,242,968, Ghahary 5,304,592 and Cozens et al 5,130,374.

Minghetti, note in the entirety; Ghahary, note column 1, lines 24-43, column 2, lines 20-50, column, 3, lines 30-59 and column 4, lines 1-65; and Cozens et al, note column 2, lines 32-45, column 3, lined 63-68, and column 4, lines 1-65, teach and disclose acrylic thermoformable acrylic sheets, granite textured plastics and rigid thermoplastic compositions, process for producing the same that render the claimed composite plastics compositions, composite produced by said process for forming the same, extruded sheets and thermoformed product obvious. The prior art teach and disclose various cross-linked polymers and thermoplastic matrix within applicants claimed ranges, which render the claimed invention obvious. It is further noted that Cozens teaches and disclose a polymethylmethacrylate matrix having cross linked

Application/Control Number: 09/445,844

Art Unit: 1714

polymethacrylate particles disperse therein, note Table 1, particularly example 5, as well as, columns 5 and 6 for specific cross linkers and column 7, lines 20-27 for the ratio of cross linkers that render the instant claimed cross linkers obvious.

The thermoformable sheets of Minghetti used as anti-slip surfaces in bathtubs and shower stalls that are reprocessed, note abstract, column 2, lines 12-15, lines 38-44 and column 5, line 62 to column 6, lines 1-5, 24-29 and 43-47lt is also noted that at lines 65-68 of column 2 of Minghetti provide teachings and disclosure that the syrup or suspending medium together with the ground PMMA becomes thixotropic and advantageously does not permit the swollen particles to settle, thus achieving an even distribution. This teaching clearly rebuts applicants' argument that the PMMA polymer is critical for controlling the particle settling in the matrix. It is the combination of the syrup or suspending medium together with the PMMA particles that creates a thixotropic mixture preventing the particles from settling.

Ghahary explicitly provides teachings that granite-plastics are useful in molding and thermoforming and that the granite-plastics are a combination of thermoplastic and thermoset plastic in a thermoplastic matrix and the method of making said matrix, note the abstract, column 2, lines 30-66. Patentee further teaches that the granite-plastic composition is suitable for injection molding, blow molding, extrusion, etc, column 6, lines 1 to 18.

The prior art clearly teaches the artisan in the art that it would be reasonable to one of ordinary skill in the art that the thermoplastic matrix having particulate cross linked polymer dispersed therein of the prior art are within the ranges that encompass

Art Unit: 1714

the ranges of the instant claims and that the composition is capable of multiple passes through extrusion or molding.

The prior art cited but not applied further teaches thermoplastic matrix having cross-linked polymers dispersed therein of the same nature as claimed b applicant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Margaret B. Medley whose telephone number is (703) 308-2518. The examiner can normally be reached on Monday-Friday from 7:30 A.M. to 6:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 703 306-2777. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-0661.

Examiner Medley/ng September 16, 2002 MARGARET MEDLEY
PRIMARY EXAMINER